Name:

*Mr. Tiénou-Gustafson & Mr. Bielmeier*

Geometry, Period

Due Date: Tue, 6 Jan 2014

**Geometry**

**Homework**



***New Year’s Resolution / Mid-Year Check In***

**What is your current Geometry grade? (Check PowerSchool if you don’t know)**

**What is your goal Geometry grade for Semester 1? (Be ambitious but feasible!)**

**What steps will you take to reach this goal?**

* Make up missing work ~ List assignments here:
* Retake low quiz grade(s) ~ List here:
* Work on Khan Academy on skills I struggle with:
* Come to study group or office hours ~ List days/times:
* Rock the Semester 1 Test! How???
* *Others? List here:*

*Our 10th grade theme is* ***Define Your Pride.******Are you proud*** *of our current 10th grade Geometry performance (including your grade, your class participation, your work ethic, how you help other students or ask for help, whether you or classmates show a growth mindset, our class culture, and our network interim rankings)?* ***Why &/or why not?***

***Now back to work: Quadratics! Struggle!!!***

***Show Your Work.* *If you circle answers without showing how you got them, you will receive a LaSalle.***

**I. FOIL**

 

**II. Solutions (AKA x-intercept, zeros, roots)**

1. ***Short answer***: What is the **difference** between the solutions to a quadratic equation and the constants in the binomial factors of a quadratic equation? Explain in words and give an example.

 

**III. Quadratics & Area**

 

**IV. Using Solutions**

***Use the quadratic equation to answer the questions below:***

1. What are the binomial factors?
2. What are the solutions?
3. How can you prove these are the solutions? Do it!
4. What is the sum of the solutions?
5. What is the product of the solutions?
6. What is the absolute value of the difference of the solutions?
7. What are the two possible quotients of the solutions?